

15 NO 1–PLY T1A

T/C 35X97
B/C 35X72
WEB 35X0

Refer to Health & Safety file for Method statement / erection procedure in accordance with CDM requirements.

If possible manufacture as one complete truss, otherwise use top hat truss as shown below.

Pole plates to be skew nailed to horizontal top chord of A. 1A to bear on pole plates and fixed to side of A using 6no. 3.35dia x 75lg galz. wire nails per joint.
A to be erected and fully braced before 1A is positioned.

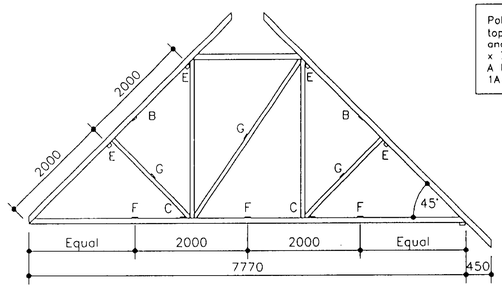
N.B.
MULTIPLE PLY GIRDER TRUSSES TO BE FULLY NAILED AT WORKS IN ACCORDANCE WITH BS 5268 PART 3 1998

BRACING LEGEND: (see also Detail Dwg No SD 4 01)
A. Longitudinal member at ridge node point
B. Longitudinal member at rafter node point
C. Longitudinal member at ceiling node point
D. diagonal member across rafters at approx 45deg

RESTRAINT LEGEND: (see also Detail Dwg No SD 8 01)
E. 50x75 gable batten under 3No rafters
F. 30x5 galv. m.s. strap over 3No ceiling ties
G. 100x25 anti–buckle bracing to struts

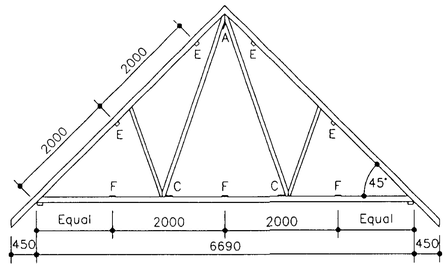
Note: All members to be tight against gable walls

Note: Timber members to be ex 25x100 & twice nailed to each truss. Metal straps to be screwed to timbers



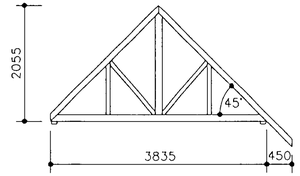
15 NO 1–PLY –T1

T/C 35X97 DEPTH 3000
B/C 35X97 RIGHT CANT 15
WEB 35X72



6 NO 1–PLY – T2

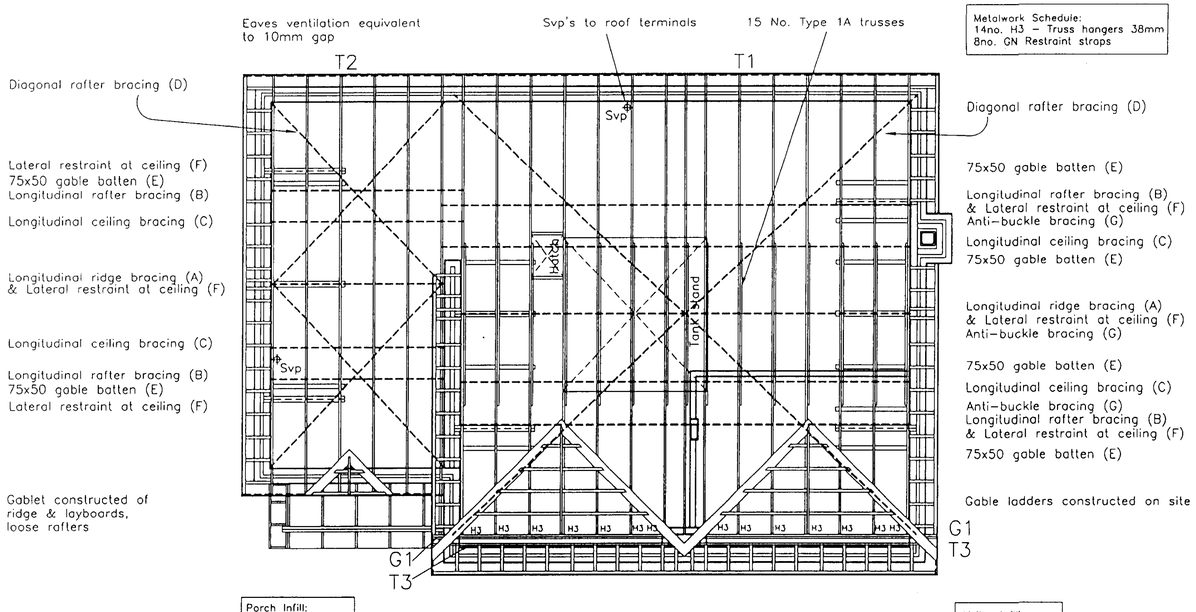
T/C 35X97 LEFT CANT 15
B/C 35X72 RIGHT CANT 15
WEB 35X60,72



2 NO 2–PLY – G1
2 NO 1–PLY – T3

T/C 35X97 LEFT CANT 15
B/C 35X122 RIGHT CANT 15
WEB 35X72,122

Truss Design



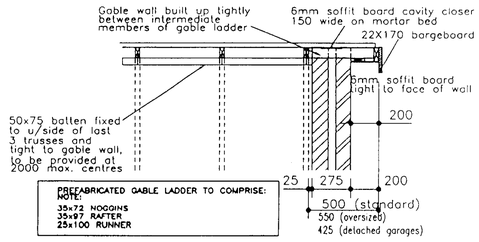
Metalwork Schedule:
14no. H3 – Truss hangers 38mm
8no. GN Restraint straps

Porch Infill:
Rafters 35x97
Ceil Jst 35x72
Binders 35x97
Beam 2/50x150

For details of tank stand see standard details SD 5 03 & 04

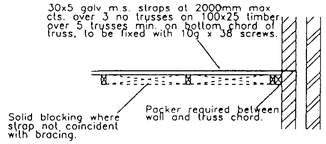
Valley Infill
Rafters 35x122
Rdge Brd 35x145
Lay Brd 35x175

Roof Layout



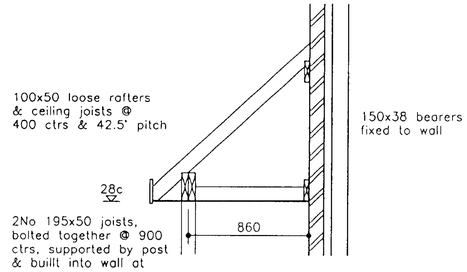
PREFABRICATED GABLE LADDER TO COMPRISE:
NOTE:
35x72 NOGGINS
35x97 RAFTER
25x100 RUNNER

Gable Restraint Details



NB. No blocking is required where lateral restraint strap is coincident with longitudinal brace.

Lateral Restraint Detail



Section Thru Porch Roof

REVISIONS

A: Brickwork recess between gables omitted. Gabblette repositioned. 08/12/95

B: Hatch & tank stand re–positioned to suit new first floor arrangement. 17/05/96

C: Truss A redesigned. Loose timber sizes updated & Gangnail details added. 19/06/96

D: Truss T2 redesigned to suit repositioned wall. Girder note added. 27/05/99

NOTES

1 Trusses and loose timber to be fixed at wall plate bearings using 2 no 4.45o x 100lg galv. wire nails.

2 Secure girder trusses to wallplates as noted above.

3 Internal walls to be stopped below underside of truss bottom chords to allow adequate gap for truss deflection except where shown otherwise.

4 Longitudinal braces are to butt tightly against gable and party walls

5 Diagonal rafter bracing is to be installed at approx. 45 deg viewed on slope (min 35 deg, max 55 deg)

6 Nail all bracing to each truss with 2 No. 3.35mm dia x 75 lg. wire nails

7 Bracing to be lapped as required over at least two trusses and fixed with 2 No. 3.35mm x 75 lg. wire nails

8 Proprietary hangers, anchors and fixings to be used in accordance with manufacturers instructions

9 H3/5/7 denotes Gang–Nail Truss Hangers
MT denotes Gang–Nail Mini Truss Shoe
MH denotes Gang–Nail Mini Hanger
HD denotes Gang–Nail Heavy Duty Girder Shoes
MD denotes Gang–Nail Medium Duty Truss Hanger
J denotes Gang–Nail Joist Hanger
A denotes Gang–Nail Maxi Hanger
* denotes Special Hanger
H denotes Masonry Hanger supplied & fixed by structural engineers to specification.

10 All loose timber to be C16 – dry graded to BS 4978.

Roof design checked for tile loads upto 975N/m² eg. plain clay or concrete tiles.

Bryant Homes
Technical Services Ltd

title
STIRLING
CENTENARY
ROOF PLAN

drg no SR C 41 D

scale 1 : 50 date SEPT '95

drawn S.D. checked D.M.P.

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